

Claims

1-A process for making particles of amine reaction product of a compound containing a primary and/or secondary amine functional group and an active ketone or aldehyde containing component, and which comprises the steps of :

- a)-providing an amine reaction product, and
- b)-mixing therewith a carrier having a melting point of less than 30°C.

2-A process according to Claim 1, wherein the amine reaction product has a viscosity of higher than 1000cps.

3-A process according to ~~either one of Claim 1 or 2~~, wherein the primary and/or secondary amine is selected from aminoaryl derivatives, polyamines, amino acids and derivatives thereof, substituted amines and amides, glucamines, dendrimers, polyvinylamines and derivatives thereof, and/or copolymer thereof, alkylene polyamine, polyaminoacid and copolymer thereof, cross-linked polyaminoacids, amino substituted polyvinylalcohol, polyoxyethylene bis amine or bis aminoalkyl, aminoalkyl piperazine and derivatives thereof, bis (amino alkyl) alkyl diamine linear or branched, and mixtures thereof; preferably selected from ethyl-4-amino benzoate, polyethyleneimine polymers; polylysine, cross-linked polylysine, N,N'-bis-(3-aminopropyl)-1,3-propanediamine linear or branched, 1,4-bis-(3-aminopropyl) piperazine, and mixtures thereof.

4-A process according to ~~any one of Claims 1-3~~, wherein the active is selected from a flavour ketone or aldehyde ingredient, a pharmaceutical ketone or aldehyde active, a biocontrol ketone or aldehyde agent, a perfume ketone or aldehyde component, a refreshing cooling ketone or aldehyde agent and/or mixtures thereof.

5-A process according to ~~any one of Claims 1-4~~, wherein said active component is an insect and/or moth repellent, preferably selected from citronellal, citral, N, N diethyl meta toluamide, Rotundial, 8-acetoxycarvotanacenone, and mixtures thereof.

6-A process according to ~~any one of~~ Claim~~s~~ 1-4, wherein said active component is an antimicrobial, preferably selected from Glutaraldehyde, Cinnamaldehyde, and mixtures thereof.

7-A process according to ~~any one of~~ Claim~~s~~ 1-4, wherein the active is a perfume, preferably selected from alpha-damascone, delta damascone, Carvone, Gamma-Methyl-Ionone; Damascenone, hedione, 2,4-dimethyl-3-cyclohexen-1-carboxaldehyde, Florhydral, Lillial, heliotropine, trans-2-nonenal, citral, and mixtures thereof.

8-A process according to ~~any one of~~ Claim~~s~~ 1-7, wherein the amount of amine reaction product ranges from 1 to 75%, preferably 5 to 30%, by weight of the processed amine reaction product.

9-A process according to ~~any one of~~ Claim~~s~~ 1-8, wherein the carrier has a melting point between minus 150°C and less than 30°C.

10-A process according to ~~any one of~~ Claim~~s~~ 1-9, wherein said carrier is a liquid carrier, preferably selected from hydrophobic and hydrophilic carrier, more preferably are selected from benzyl salicylate, diethyl phthalate, dipropylene glycol, methanol, ethanol, hydrophobic perfume composition, and mixtures thereof.

11-A process according to ~~any one of~~ Claim~~s~~ 1-10, wherein the amount of carrier material ranges from 3 to 95%, preferably from 15 to 80% and most preferably from 25 to 75%, by weight of the produced particles of the processed amine reaction product.

12-A process according to Claim 11 wherein the processed product is subsequently treated to form a coated particle.

13-A process according to ~~any one of~~ Claim~~s~~ 1-12, wherein the coating is made of water-soluble agglomerating agent.

14-A process according to Claim 13, wherein the water-soluble agglomerating agent is selected from water soluble organic polymeric compounds, water soluble

monomeric polycarboxylates, or their acid forms, homo or copolymeric polycarboxylic acids or their salts in which the polycarboxylic acid comprises at least two carboxylic radicals separated from each other by not more than two carbon atoms, carbonates, bicarbonates, borates, phosphates, sulfate salts, inorganic perhydrate salts, silicates, starch, cyclodextrin, and mixtures thereof, preferably selected from starch, carbonate, cyclodextrin, and mixtures thereof.

15-A process according to ~~any one of Claims 1-14~~, wherein the amount of amine reaction product ranges from 1 to 75%, preferably 5 to 30%, by weight of the coated particle.

16-A processed amine reaction product as obtainable by the process of Claims 1-15.

17-A method of incorporating an amine reaction product according to Claim 16 into finished product, preferably by means selected from spraying, dry-addition, and mixtures thereof.

18-A finished composition comprising one or more laundry or cleaning ingredient and a processed amine reaction product according to Claim 16.

19-A composition according to Claim 18, wherein said composition is selected from a laundry composition, hard surface cleaning composition, and personal cleaning composition.

20-A method for delivering residual active to a surface which comprises the steps of contacting said surface with a processed product according to Claim 16, or composition according to either one of Claim 18 or 19, and thereafter contacting the treated surface with a material so that the active is released.

21- Use of a product as defined in Claim 16 for the manufacture of a laundry and/or cleaning composition for delivering residual fragrance on a surface on which it is applied.

22-Use of a product as defined in Claim 16 for the manufacture of a laundry and/or cleaning composition for delivering residual fragrance and fabric care onto the fabrics on which it is applied.

23-A packaged composition comprising the processed product of Claim 16 or composition of either one of Claim 18 or 19.

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